

Shima Abtin

Physiologist



A researcher who is finishing a Ph.D. of physiology, now seeking a research position as a new challenge in life, With five years of demonstrated experience in lab experiments, molecular biology techniques and single unit recording.

Education

2007-2011

B.Sc. in Biology

Department of Biology, Shahid Chamran University, Ahvaz, Iran.

GPA: 18.69 (out of 20)

2011-2013

Master of Physiology

Department of Physiology, Shahid Chamran University, Ahvaz, Iran.

Thesis title:

Effect of *Salvia officinalis* Hydro Alcoholic Extract on Iron Oxide Nanoparticle Induced Memory Impairment in the Presence and Absence of Beta-Adrenergic Receptors in Adult Male Mice

Supervised by: Lotfollah Khajehpour, Mahnaz Kesmati, Hossein

Najafzadeh

GPA: 19.06 (out of 20)

2016-2023

PhD of physiology

Shahid Beheshti University of Medical Science, Tehran, Iran.

Thesis title:

The role of progesterone on LTP in WDR neurons of spinal cord in a model of peripheral nerve demyelination on the male rats: the possible involvement of the ephrinB1 and ephrinB2 molecules

Supervised by: Homa Manaheji, Abbas Haghparast, Rasoul Ghasemi

GPA: 17.68 (out of 20)

Achievements

Graduated Ranked 1st in B.Sc.

Graduated Ranked 2st in M.S.

Graduated Ranked 1st in Ph.D.

Member of Iranian Society of physiology of Iran, since 2014.

Member of Iranian Neuroscience Society, since 2018.

Member of International Association for the Study of Pain, since 2018.

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status:

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Workshops

- MATLAB for neuroscientists, organized by brain future institute, Aug 21-Sep 20 2021.
- Introduction to international organization and institutions of neuroscience and their financial, educational and research opportunities, Iranian Neuroscience Society, Feb 21, 2019.
- Analysis of electrical oscillations of the brain, organized by department of physiology and institute for brain and cognition, Tarbiat Modares university, Oct 14, 2021.
- 2nd IPM neural data analysis school (NDAS), Feb 19-May 9, 2022.
- Evoked field potential recording, organized by department of physiology and institute for brain and cognition, Tarbiat Modares university, Oct 13, 2021.
- As a Lab Assistant Member of the Neuroscience Research Center in The 2nd Iranian Associate School of Cognitive Neuroscience for Addiction Prevention and Treatment Development: From Animal Study to Human Brain Mapping, held from 7 to 14 May 2024, in Tehran, Iran.

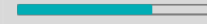
Publications

Conferences and Poster Presentations:

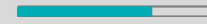
- Abtin S, Khajehpour L, Kesmati M, Najafzadeh H. Effect of hydro alcoholic extract of *Salvia Officinalis* (sage) on memory impairment induced by iron oxide nanoparticle, 21th Iranian congress of physiology and pharmacology, Sep, 2013.
- Shima Abtin, Rasoul Ghasemi, Homa Manaheji. The expression of spinal ephrin-B2 can be modulated by progesterone after peripheral nerve injury in rats, 10th basic and clinical neuroscience congress, Des 22-24, 2021.
- Shima Abtin, Rasoul Ghasemi, Homa Manaheji. Progesterone modulates the development of neuropathic pain, ephrin-B2 expression and induction of long-term potentiation after peripheral nerve injury in rats, 12th Congress of the European Pain Federation EFIC, Dublin, Ireland, 2022.
- Shima Abtin, Rasoul Ghasemi, Homa Manaheji. Progesterone modulates the expression of spinal ephrin-B2 and excitability of spinal WDR neurons after peripheral nerve injury: new insights into progesterone mechanisms, the Phypha 26, Semnan, Iran, October 11-13, 2023.

Professional Skills

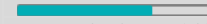
Problem Solving



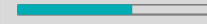
Team Work



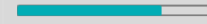
Root Cause Analysis



Negotiation Skills



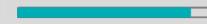
Time Management



Communication



Education

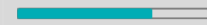


Computer Skills

Using Databases



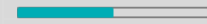
MS Office



Adobe Photoshop



Adobe illustrator



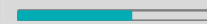
MATLAB programming language



Biostatistics tools

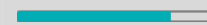


Online education tools

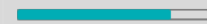


Lab Skills

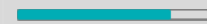
Western blot



Single unit recording



Neuropathic pain behavioral tests



Publications

Journals:

1. Abtin S, Khajepour L, Kesmati M, Najafzadeh H. Effect of *Salvia officinalis* Hydro Alcoholic Extract on Iron Oxide Nanoparticle Induced Memory Impairment in the Presence and Absence of Beta-Adrenergic Receptors in Adult Male Mice. *Journal of Ardabil University of Medical Sciences*, 2015; 15 (4):348-359
2. Shima Abtin, Rasoul Ghasemi, Homa Manaheji. Progesterone modulates the expression of spinal ephrin-B2 after peripheral nerve injury: new insights into progesterone mechanisms. *Steroids*, 2023, Feb; 190:109155.
3. Mojgan Baratzadeh, Samira Danialy, Shima Abtin, Homa Manaheji. Naloxone could limit morphine hypersensitivity: Considering the molecular mechanisms. *Neuropeptides*, August 2023, 100:102345.
4. Shima Abtin, Fatemehsadat Seyedaghamiri, Zahra Aalidaei1, Amirmohammad Farrokhi, Fazel Moshrefi, Tayebeh Ziveh, Mohammad Esmail Zibaii, Mostafa Rezaee-Tavirani, Abbas Haghparast. Consequences of molecular and genomic alterations following exposure to electromagnetic fields: remodeling of neuronal network and cognitive changes. *Brain Research Bulletin*, 2024.
5. Pariya Shahani, Hedi Abolghasemi, Shima Abtin, Roghaye Mozafari, Nooshin Barikrow, Batool Ghorbani Yekta, Abbas Haghparast. The interaction effects between opioidergic and D1-like dopamine receptors in the nucleus accumbens on pain-related behaviors in the animal model of acute pain. *Pharmacology Biochemistry and Behavior*, 2024.
6. Shima Abtin, Tayebeh Ziveh, Mostafa Rezaee-Tavirani. The complicated relationship between inflammation and metabolic dysfunction. *Journal of Diabetes & Metabolic Disorders*, 2025.
7. Sahar Sadeghzadeh Sotoudeh, Shima Abtin, Roghayeh Mozafari, Abbas Haghparast. Role of the dentate gyrus of hippocampus on acute pain modulation: Investigating of dopaminergic-opioidergic interactions in pain-related behaviors in the tail-flick test. *Brain Research*, 2026
- 8.

Hobbies

mountain climbing

Book reading

Social media

References

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Assistant Professor,
Department of Physiology,
School of Medicine, Shahid
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Medical Sciences, Tehran,
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Under publications

1. Ali Sayarnezhad, Pedram Shakerinava, Shima Abtin, Abbas Haghparast. Interrelationship of orexinergic receptors within the ventral tegmental area and restraint stress-induced antinociceptive responses in the persistent inflammatory pain model.

Work Experiences

- **Postdoctoral researcher Tehran- 2023-2024**
Neuroscience Research Center, School of Medicine, Shahid Beheshti University of Medical Sciences
- **Teaching assistant Masjed Soleyman -2025**
Islamic Azad University, Masjed Soleyman Branch

Scientific journal referee

- **Life science**